JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

CONTENTS OF VOLUME 54

THE 118TH ANNUAL MEETING

SUMMARIES OF PAPERS DELIVERED 484

ARTICLES 1, 335, 535, 717

NOTES ABOUT AUTHORS 310, 480, 695, 807

BOOK REVIEWS 315, 510, 699, 813

PUBLICATIONS RECEIVED 334, 526, 712, 829

CORRIGENDA 810

INDEX TO VOLUME 54, 1959

ARTICLES, BY AUTHOR 831

BOOK REVIEWS, BY AUTHOR 832

LIST OF REVIEWERS 834

REPORTS AND OFFICIAL NOTICES

REPORT OF THE BOARD OF DIRECTORS 528

REPORT OF THE SECRETARY-TREASURER 529

REPORT OF THE EDITORS 530

JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

CONTENTS OF VOLUME 54

THE 118TH ANNUAL MEETING

SUMMARIES OF PAPERS DELIVERED 484

ARTICLES 1, 335, 535, 717

NOTES ABOUT AUTHORS 310, 480, 695, 807

BOOK REVIEWS 315, 510, 699, 813

PUBLICATIONS RECEIVED 334, 526, 712, 829

CORRIGENDA 810

INDEX TO VOLUME 54, 1959

ARTICLES, BY AUTHOR 831

BOOK REVIEWS, BY AUTHOR 832

LIST OF REVIEWERS 834

REPORTS AND OFFICIAL NOTICES

REPORT OF THE BOARD OF DIRECTORS 528

REPORT OF THE SECRETARY-TREASURER 529

REPORT OF THE EDITORS 530

INDEX TO VOLUME 54, 1959

ARTICLES

ASKOVITZ, S. I., *Graphic Methods Based Upon Properties of Advancing Centroids* . 668
BEATTIE, RONALD H., *Sources of Statistics on Crime and Correction* 582
BOX, G. E. P., and DRAPER, NORMAN R., *A Basis for the Selection of a Response Surface Design* 622
CHOYNOWSKI, M., *Maps Based on Probabilities* 385
CLAWSON, MARION, *Statistical Data Available for Economic Research On Certain Types of Recreation* 281
ARTHUR COHEN, *Tables for the Sign Test When Observations Are Estimates of Binomial Parameters* 784
COHN, SAMUEL M., *Problems in Estimating Federal Government Expenditures* . . 717
COULTER, ELIZABETH J., and GURALNICK, LILLIAN, *Analysis of Vital Statistics by Census Tract* 730
CROMARTY, WILLIAM A., *An Econometric Model for United States Agriculture* . . 556
DALENIUS, TORE, and HODGES, JOSEPH L., JR., *Minimum Variance Stratification* 88
DE JANOSI, PETER E., *A Note on the Relationship Between Earning Expectations and New Car Purchases* 575
DEMING, W. EDWARDS, and GLASSER, GERALD J., *On the Problem of Matching Lists by Samples* 403
DUNN, OLIVE JEAN, *Confidence Intervals for the Means of Dependent Normally Distributed Variables* 613
FEDERIGHI, ENRICO T., *Extended Tables of the Percentage Points of Student's t-Distribution* 683
FELS, EBERHARD M., *Some Soviet Statistical Books of 1957* 12
GATES, C. R., and FEAREY, J. P., *Accuracy Requirements for Acceptance Testing of Complex Systems* 447
GOODMAN, LEO A., and KRUSKAL, WILLIAM H., *Measures of Association for Cross Classifications. II: Further Discussion and References* 123
GREENBERG, B. G., and SARHAN, A. E., *Matrix Inversion, its Interest and Application in Analysis of Data* 755
GRIDGEMAN, N. T., *The Lady Tasting Tea, and Allied Topics* 776
GRILICHES, ZVI, *The Demand for Fertilizer in 1954: An Inter-State Study* . . 377
HAMMOND, E. CUYLER: *Inhalation in Relation to Type and Amount of Smoking* . 35
HOADLEY, WALTER E., JR., *Statisticians—Today and Tomorrow* 1
JONES, HOWARD L., *How Many of a Group of Random Numbers Will Be Usable in Selecting a Particular Sample?* 102
KAPLAN, NORMAN M., *Some Methodological Notes on the Deflation of Construction* . 535
KAITZ, HYMAN B., *A Check on Gross Errors in Certain Variance Computations* . . 741
KISH, LESLIE, and HESS, IRENE, *On Variances of Ratios and Their Differences in Multi-Stage Samples* 416
LANDIS, BENSON Y., *A Guide to the Literature on Statistics of Religious Affiliation with References to Related Social Studies* 335
LOCKS, MITCHELL O., *Automatic Programming for Automatic Computers* . . . 744
LORD, FREDERIC M., *Problems in Mental Test Theory Arising from Errors of Measurement* 472
MACKINNON, WILLIAM J., *Compact Table of Twelve Probability Levels of the Symmetric Binomial Cumulative Distribution for Sample Sizes to 1,000* 164
MADANSKY, ALBERT, *The Fitting of Straight Lines When Both Variables Are Subject to Error* 173
MICKEY, M. R., *Some Finite Population Unbiased Ra io and Regression Estimators* 594
MORANDA, P. B., *Comparison of Estimates of Circular Probable Error* 794
NEISWANGER, W. A., and YANCEY, T. A., *Parameter Estimates and Autonomous Growth* 389

NISSELSON, HAROLD, and WOOLSEY, THEODORE D., *Some Problems of the Household Interview Design for the National Health Survey* 69
OSTLE, BERNARD, and STECK, GEORGE P., *Correlation Between Sample Means and Sample Ranges* 465
PRATT, JOHN W., *Remarks on Zeros and Ties in the Wilcoxon Signed Rank Procedure* 655
RAO, J. N. K., *A Note on Mean Square Successive Differences* 801
REID, MARGARET G., *Increase in Rent of Dwelling Units from 1940 to 1950* . . 358
SAVAGE, I. RICHARD, *A Production Model and Continuous Sampling Plan* . . 231
SEAL, K. C., *A Single Sampling Plan for Correlated Variables With a Single-Sided Specification Limit* 248
SOBOL, MARION GROSS, *Panel Mortality and Panel Bias* 52
STECK, G. P., and OWEN, D. B., *Percentage Points for the Distribution of Outgoing Quality* 689
STEEL, ROBERT G. D., *A Multiple Comparison Sign Test: Treatments Versus Control* 767
STERLING, THEODORE D., *Publication Decisions and Their Possible Effects on Inferences Drawn from Tests of Significance—Or Vice Versa* 30
TATE, R. F., and KLETT, G. W., *Optimal Confidence Intervals for the Variance of a Normal Distribution* 674
TINGEY, F. H., and MERRILL, J. A., *Minimum Risk Specification Limits* . . . 260
TULLOCK, GORDON, *Publication Decisions and Tests of Significance—A Comment* . 593
WAGNER, HARVEY M., *Linear Programming Techniques for Regression Analysis* . 206
WALLACE, DAVID L., *Simplified Beta-Approximations to the Kruskal-Wallis-Test* . 225
WALSH, JOHN E., *Comments on "The Simplest Signed-Rank Tests"* 213
WILLIS, RICHARD H., *Lower Bound Formulas for the Mean Intercorrelation Coefficient* 275
WINDLE, CHARLES, *The Accuracy of Census Literacy Statistics in Iran* 578

BOOK REVIEWS

ARMOUR RESEARCH FOUNDATION, *Proceedings of the Fourth Annual Computer Applications Symposium*. . . . . O. W. RECHARD 523
BARCLAY, GEORGE W., *Techniques of Population Analysis* . . JACOB S. SIEGEL 817
BEACH, E. F., *Economic Models: An Exposition* . . . . . JOHN MEYER 316
BENDAT, JULIUS S., *Principles and Applications of Random Noise Theory* . . . . . EMANUEL PARZEN 525
BUNDESREPUBLIK DEUTSCHLAND, *Statistisches Jahrbuch für die Bundesrepublik Deutschland, 1958*, and *Statistisches Taschenbuch, Pocket-Book of Statistics, Annuaire Statistique de Poche, 1958* . . . . . JERRY W. COMBS, JR. 327
CANTELLI, F. P., *Alcune memorie matematiche* . . . . LEONARD J. SAVAGE 827
CASEY, ROBERT S., PERRY, JAMES W., BERRY, MADELINE M., and KENT, ALLEN (Editors), *Punched Cards: Their Application to Science and Industry, Second Edition* . . . . . C. L. PERRY 710
CHEW, VICTOR (Editor), *Experimental Designs in Industry* . STEPHEN HARRISON 320
CONFERENCE ON RESEARCH IN INCOME AND WEALTH, *A Critique of the United States Income and Product Accounts. Studies in Income and Wealth, Volume 22* . . . . . KENNETH E. BOULDING 704
DAVIES, MAX, and VERHULST, MICHEL (Editors), *Operational Research in Practice* . . . . . SAMUEL H. BROOKS 710
DOWNIE, N. M., and HEALTH, R. W., *Basic Statistical Methods* . . . . . OLIVE JEAN DUNN 816
DUBOIS, PHILIP H., *Multivariate Correlational Analysis* . . . PAUL S. DWYER 701
EDWARDS, ALLEN L., *The Social Desirability Variable in Personality Assessment and Research* . . . . . D. A. SPROTT 331
ENRICH, N. L., *Mill Test Procedures*. . . . . L. H. C. TIPPETT 711
FIRESTONE, O. J., *Canada's Economic Development 1867–1953, Income and Wealth Series VII* . . . . . WILLIAM WOLMAN 518

GOTLIEB, C. C., and HUME, J. N. P., *High-Speed Data Processing* . . . . . HARRY EISENPRESS 319
GRIFFIN, JOHN I., *Statistics Essential for Political Efficiency* . . HANS ZEISEL 511
GRAF, ULRICH, and HENNING, *Hans-Joachim, Formeln und Tabellen der mathematischen Statistik* . . . . . GOTTFRIED E. NOETHER 827
HOLLAND, DANIEL M., *The Income Tax Burden on Stockholders* . . . . . FRANCIS M. BODDY 515
HOLUBNYCHY, VSEVOLOD S., *Industrial Output of the Ukraine, 1913–1956: A Statistical Analysis* . . . . . WARREN NUTTER 319
HOOD, WILLIAM C., and SCOTT, ANTHONY, *Output, Labour and Capital in the Canadian Economy* . . . . . HARRY E. MCALLISTER 707
INTERNATIONAL LABOUR OFFICE, *Year Book of Labour Statistics, 1957* . . . . . DAVID L. KAPLAN 329
KLAMAN, SAUL B., *The Volume of Mortgage Debt in the Postwar Decade* . . . . . ANDREW F. BRIMMER 823
KULLBACK, SOLOMON, *Information Theory and Statistics* . . . D. V. LINDLEY 825
LOVEDAY, ROBERT, *A First Course in Statistics* . . . . R. CLAY SPROWLS 315
FRASER, DONALD A. S., *Statistics: An Introduction* . . . . . H. A. DAVID 814
MAXWELL, A. E., *Experimental Design in Psychology and the Medical Sciences* . . . . . A. M. FEYERHERM 512
MAYER, KURT B., and GOLDSTEIN, SIDNEY, *Migration and Economic Development in Rhode Island* . . . . . BENJAMIN CHINITZ 521
MCKEAN, ROLAND N., *Efficiency in Government Through Systems Analysis, With Special Emphasis on Water Resources Development* . . JOHN V. KRUTILLA 325
MICHIGAN GOVERNMENTAL STUDIES NO. 36. JANOWITZ, MORRIS, WRIGHT, DEIL, AND DELANY, WILLIAM, *Public Administration and the Public—Perspectives Toward Government in a Metropolitan Community* . . . . LANE DAVIS 513
NAVAL ELECTRONICS LABORATORY, *NEL Reliability Bibliography—Supplement I* . . . . . JUDAH ROSENBLATT 323
NERLOVE, MARC, *Distributed Lags and Demand Analysis for Agricultural and Other Commodities* . . . . . BEN C. FRENCH 317
MOORE, P. G., *Principles of Statistical Analysis* . . . . CLYDE Y. KRAMER 816
OKUN, BERNARD, *Trends in Birth Rates in the United States Since 1870* . . . . . LINCOLN H. DAY 522
OLSON, EVERETT C., and MILLER, ROBERT L., *Morphological Integration* . . . . . D. R. COX 332
OPERATIONS RESEARCH GROUP OF CASE INSTITUTE OF TECHNOLOGY, *A Comprehensive Bibliography on Operations Research* . . . H. M. WEINGARTNER 322
OWEN, DONALD B., *Table of Factors for One-Sided Tolerance Limits for a Normal Distribution* . . . . . W. ALLEN WALLIS 333
PROCEEDINGS OF THE THIRTY-FOURTH ANNUAL CONFERENCE OF THE MILBANK MEMORIAL FUND, *Selected Studies of Migration Since World War II* . . . . . JAMES J. MASLOWSKI 520
RICHMOND SAMUEL B., *Principles of Statistical Analysis* . . RUDOLF J. FREUND 315
RILEY, VERA, and GASS, SAUL I., *Linear Programming and Associated Techniques, A Comprehensive Bibliography* . . . . . HARVEY M. WAGNER 324
SCHLAIFER, ROBERT, *Probability and Statistics for Business Decisions: An Introduction to Managerial Economics Under Uncertainty* . . . . F. J. ANSCOMBE 813
SENDERS, VIRGINIA L., *Measurement and Statistics: A Basic Text Emphasizing Behavioral Science Applications* . . . . . JOHN P. GILBERT 510
SHELDON, HENRY D., *The Older Population of the United States* . . . . . IRVING L. WEBBER 330
STEPHAN, FREDERICK F., and MCCARTHY, PHILIP J., *Sampling Opinions* . . . . . ELEANOR E. MACCOBY 702
THEADORE, CHRIS A., *New England Economic Indicators, Second Edition* . . . . . ELMER C. BRATT 823

UNITED NATIONS, *World Economic Survey, 1958* . . . . RICHARD J. FOOTE 822
UNITED NATIONS, *Yearbook of International Trade Statistics 1956, Volume I and and II; 1957, Volume I and II* . . . . . WALTHER P. MICHAEL 820
UNITED NATIONS, *Multilingual Demographic Dictionary*. English Section . . . 820
UNITED STATES DEPARTMENT OF AGRICULTURE, *Major Statistical Series of the United States Department of Agriculture, How They Are Constructed and Used* . . . . . IVAN M. LEE 516
UNITED NATIONS DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS, STATISTICAL OFFICE, *Demographic Yearbook, 1957 (In English and French)* . . . . . WARREN S. THOMPSON 329
UNITED NATIONS DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS, *Recent Trends in Fertility in Industrialized Countries* . . . . . WILSON H. GRABILL 705
UNITED STATES DEPARTMENT OF LABOR, *Frequency of Change in Wholesale Prices: A Study of Price Flexibility* . . . . . ELMER C. BRATT 824
UNIVERSITY OF SOUTH CAROLINA, BUREAU OF BUSINESS RESEARCH, *The Carolina Economy: Resource Chartbook to the Future* . . . . PHILIP BOURQUE 318
WALKER, HELEN M., AND LEV, JOSEPH, *Elementary Statistical Methods* . . . . . HENRY F. KAISER 699

LIST OF REVIEWERS

F. J. Anscombe 813
Francis M. Boddy 515
Philip Bourque 318
Kenneth E. Boulding 704
Elmer C. Bratt 823, 824
Andrew F. Brimmer 823
Samuel H. Brooks 710
Benjamin Chinitz 521
Jerry Combs, Jr. 327
D. R. Cox 332
H. A. David 814
Lane Davis 513
Lincoln H. Day 522
Olive Jean Dunn 816
Paul S. Dwyer 701
Harry Eisenpress 319
A. M. Feyerherm 512
Richard J. Foote 822
Ben C. French 317
Rudolf J. Freund 315
John P. Gilbert 510
Wilson H. Grabill 705
Stephen Harrison 320
Henry F. Kaiser 699
David L. Kaplan 329
Clyde Y. Kramer 816
John V. Krutilla 325
Ivan M. Lee 516
D. V. Lindley 825
Eleanor E. Maccoby 702
James J. Maslowski 520
Harry E. McAllister 707
John Meyer 316
Walther P. Michael 820
Gottfried E. Noether 828
Warren Nutter 319
Emanuel Parzen 525
C. L. Perry 710
O. W. Rechard 523
Judah Rosenblatt 323
Leonard J. Savage 827
Jacob S. Siegel 817
D. A. Sprott 331
R. Clay Sprowls 315
Warren S. Thompson 329
L. H. C. Tippett 711
Harvey M. Wagner 324
Irving L. Webber 330
H. M. Weingartner 322
William Wolman 518
Hans Zeisel 511

JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

VOLUME 54: 1959

NUMBERS 285-288

Published Quarterly by the

AMERICAN STATISTICAL ASSOCIATION

WASHINGTON, D. C.

1959

JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

The Editors welcome the submission of manuscripts for possible publication. They should be typewritten entirely double-spaced, including footnotes, and two copies should be sent to the Acting Editor, David L. Wallace, Haskell Hall, University of Chicago, Chicago 37. Books for review should be sent to the same address. Unsolicited book reviews are not accepted, but suggestions of titles for review are welcome.

EDITOR

W. ALLEN WALLIS, *University of Chicago*

ACTING EDITOR

DAVID L. WALLACE, *University of Chicago*

ASSISTANT TO THE EDITOR: CAROLYN H. STONE

ASSOCIATE EDITORS

ROBERT FERBER
University of Illinois

CLIFFORD HILDRETH
Michigan State University

MILLARD HASTAY
Washington State University

WILLIAM G. MADOW
Stanford Research Institute

I. RICHARD SAVAGE
University of Minnesota

HERBERT SOLOMON
Stanford University

ADVISORY PANEL OF FORMER EDITORS

WILLIAM G. COCHRAN (1945–50)
Harvard University

WILLIAM F. OGBURN (1920–25)
University of Florida
(Deceased 27 April, 1959)

FRANK A. ROSS (1926–34, 41–45)
Thetford, Vermont

FREDERICK F. STEPHAN (1935–40)
Princeton University

Corrigenda: Readers and authors are urged to submit to the Editor notices of errors found in this or any previous volume. These will be published once a year, in the December issue.

EDITORIAL COLLABORATORS

FORMAN S. ACTON, *Princeton University*
W. R. ALLEN, *New York University*
R. L. ANDERSON, *University of North Caroline*
T. W. ANDERSON, *Columbia University*
FRANK J. ANSCOMBE, *Princeton University*
H. AOYAMA, *Institute of Statistical Mathematics, Tokyo*
GERTRUDE BANCROFT, *Bureau of the Census*
R. L. BASMANN, *Hanford Laboratories Operation*
ROBERT BECHHOFER, *Stanford University*
AGNES BERGER, *Columbia University*
JOSEPH BERKSON, *Mayo Clinic*
MAX A. BERSHAD, *Bureau of the Census*
STUART A. BESSLER, *Stanford University*
ALLAN BIRNBAUM, *Columbia University*
COLIN BLYTH, *University of Illinois*
JAMES N. BOLES, *University of California, Berkeley*
ISRAEL BORENSTEIN, *United Nations*
GEORGE H. BORTS, *Brown University*
PAUL A. BOSCHAN, *Consultant, New York*
R. C. BOSE, *University of North Carolina*
R. A. BRADLEY, *Virginia Polytechnic Institute*
RUSSELL N. BRADT, *University of Kansas*
ELMER C. BRATT, *Lehigh University*
GLENN W. BRIER, *Weather Bureau, United States Department of Commerce*
IRWIN BROSS, *Cornell University*
K. A. BROWNLEE, *University of Chicago*
O. H. BROWNLEE, *University of Minnesota*
IRVING W. BURR, *Purdue University*
GLENN BURROWS, *Knolls Atomic Power Laboratory*
PHILLIP CAGAN, *Brown University*
JOSEPH M. CAMERON, *National Bureau of Standards*
JOHN S. CHIPMAN, *University of Minnesota*
J. T. CHU, *Radio Corporation of America, New Jersey*
ANSLEY J. COALE, *Princeton University*
JAMES COLEMAN, *University of Chicago*
RAYMOND O. COLLIER, JR., *University of Minnesota*
GERHARD COLM, *National Planning Association, Washington, D. C.*
W. S. CONNOR, *National Bureau of Standards*
JEROME CORNFIELD, *Johns Hopkins University*
DANIEL CREAMER, *National Industrial Conference Board, New York*
LEE J. CRONBACH, *University of Illinois*
EDWIN L. CROW, *National Bureau of Standards*
REX F. DALY, *International Cooperation Administration*
CUTHBERT DANIEL, *Consultant*
WAYNE F. DAUGHERTY, *Bureau of the Census*
H. A. DAVID, *Virginia Polytechnic Institute*
CYRUS DERMAN, *Columbia University*
DAVID B. DUNCAN, *University of North Carolina*
OTIS DUDLEY DUNCAN, *University of Chicago*
CHARLES W. DUNNETT, *University of Aberdeen, Scotland*
ARTHUR M. DUTTON, *University of Rochester*
PAUL S. DWYER, *University of Michigan*
RICHARD EASTERLIN, *Wharton School of Finance and Commerce*
HELEN F. ECKERSON, *U. S. Department of Justice*
ALLEN EDWARDS, *University of California (Los Angeles)*
HARRY EISENPRESS, *International Business Machines Corporation, New York*
ROBERT EISNER, *Northwestern University*
LILA ELVEBACK, *Tulane University*
BENJAMIN EPSTEIN, *Stanford University*
ROBERT FERBER, *University of Illinois*
FRANKLIN M. FISHER, *Harvard University*
WALTER D. FISHER, *Kansas State College*
RICHARD J. FOOTE, *Connell Rice and Commission Co., Inc.*
JERRY FOYTIK, *University of California, Davis*
D. A. S. FRASER, *Toronto University*
DONALD A. GARDINER, *Oak Ridge National Laboratory*
CHARLES E. GATES, *University of Minnesota*
R. C. GEARY, *United Nations*
ELIZABETH W. GILBOY, *Harvard University*
PAUL C. GLICK, *Bureau of the Census*
LEO A. GOODMAN, *University of Chicago*
LEO GREBLER, *Washington State University*
BERT F. GREEN, JR., *Massachusetts Institute of Technology*
B. G. GREENBERG, *University of North Carolina*
SAMUEL W. GREENHOUSE, *Department of Health, Education, and Welfare*
THOMAS N. E. GREVILLE, *Public Health Service*
FRANK E. GRUBBS, *Ballistic Research Laboratories*
JOHN GURLAND, *Iowa State College*
MARGARET GURNEY, *Bureau of the Census*
ROBERT GUSTAFSON, *University of Chicago*
JAMES HANNAN, *Michigan State University*
MORRIS H. HANSEN, *Bureau of the Census*
H. O. HARTLEY, *Iowa State College*
WALTER A. HENDRICKS, *Department of Agriculture*
J. L. HODGES, *University of California, Berkeley*
WASSILY HOEFFDING, *University of North Carolina*
WILLIAM C. HOOD, *University of Toronto*
DANIEL HORVITZ, *A. J. Wood and Company*
ALSTON S. HOUSEHOLDER, *Oak Ridge National Laboratory*
HARRY HUGHES, *Randolph Air Force Base*
THOR HULTGREN, *National Bureau of Economic Research*
EMIL H. JEBE, *Iowa State College*
RAYMOND JESSEN, *General Analysis Corporation*
EUGENE A. JOHNSON, *University of Minnesota*
HOWARD L. JONES, *University of Chicago*
E. L. KAPLAN, *Bell Telephone Laboratories*
LEO KATZ, *Michigan State University*
OSCAR KEMPTHORN, *Iowa State College*
M. G. KENDALL, *University of London*

HARRY V. KINCAID, *Stanford Research Institute*
LESLIE KISH, *University of Michigan*
LAWRENCE R. KLEIN, *University of Pennsylvania*
GEORGE KLEINER, *University of Illinois*
MORDECHAI KREININ, *Michigan State University*
WILLIAM H. KRUSKAL, *University of Chicago*
R. F. LANZILLOTTI, *Washington State University*
ANDRÉ C. LAURENT, *Wayne State University*
GEROLD LEIBERMAN, *Stanford University*
H. GREGG LEWIS, *University of Chicago*
JULIUS LIEBLEIN, *Department of the Navy*
BERNARD W. LINDGREN, *University of Minnesota*
IRVING LORGE, *Columbia University*
H. L. LUCAS, *North Carolina State College*
ALBERT MADANSKY, *RAND Corporation*
D. MAINLAND, *New York University*
JOHN MANDEL, *National Bureau of Standards*
ELI S. MARKS, *National Analysts, Inc.*
FRANK G. MARTIN, JR., *The Consolidated University of North Carolina*
JAMES J. MASLOWSKI, *Bureau of the Census*
HARRY MCALLISTER, *Washington State University*
RICHARD B. MCHUGH, *University of Minnesota*
QUINN MCNEMAR, *Stanford University*
PAUL MEIER, *University of Chicago*
JACOB MINCER, *City College of New York*
HYMAN P. MINSKY, *University of California, Berkeley*
ALEXANDER M. MOOD, *General Analysis Corporation*
JAMES N. MORGAN, *University of Michigan*
LINCOLN E. MOSES, *Stanford University*
FREDERICK MOSTELLER, *Harvard University*
R. B. MURPHY, *Bell Telephone Laboratories*
MARC NERLOVE, *University of Minnesota*
ROBINSON NEWCOMBE, *Robinson Newcombe Associates*
MORRIS NEWMAN, *National Bureau of Standards*
J. NEYMAN, *University of California, Berkeley*
HAROLD NISSELSON, *Bureau of the Census*
GOTTFRIED E. NOETHER, *Boston University*
WARREN NUTTER, *University of Virginia*
INGRAM OLKIN, *Stanford University*
GUY H. ORCUTT, *Harvard University*
HARRY T. OSHIMA, *Japan*
GLADYS, PALMER, *University of Pennsylvania*
EDGAR A. PESSEMIER, *Washington State University*
MICHAEL POLYANI, *University of Manchester*
JOHN W. PRATT, *Harvard University*
JOSEPH PUTTER, *Agricultural Research Station, Israel*
RONALD PYKE, *Columbia University*
ROY RADNER, *University of California, Berkeley*
GEORGE RESNIKOFF, *Illinois Institute of Technology*
PAUL R. RIDER, *Washington University*
HERBERT ROBBINS, *Columbia University*
HARRY V. ROBERTS, *University of Chicago*
JOAN R. ROSENBLATT, *National Bureau of Standards*
S. N. ROY, *University of North Carolina*
JAGDISH RUSTAGI, *Michigan State University*
RICHARD E. QUANDT, *Princeton University*
DENIS SARGON, *University of Minnesota*
I. R. SAVAGE, *University of Minnesota*
IRVING SCHWEIGER, *University of Chicago*
VIRGINIA SENDERS, *University of Minnesota*
HENRY S. SHRYOCK, *Bureau of the Census*
SIDNEY SIEGEL, *Pennsylvania State University*
MONROE G. SIRKEN, *National Office of Vital Statistcs*
ROSEDITH SITGREAVES, *Columbia University*
J. LAURIE SNELL, *Stanford University*
ROBERT SOLOW, *Massachusetts Institute of Technology*
MORTIMER SPIEGELMAN, *Metropolitan Life Insurance Company*
JAMES H. STAPLETON, *Michigan State University*
FREDERICK E. STEPHAN, *Princeton University*
THEODOR D. STERLING, *University of Cincinnati*
GEORGE J. STIGLER, *University of Chicago*
DANIEL B. SUITS, *University of Michigan*
PATTICK SUPPES, *Stanford University*
WILLIAM F. TAYLOR, *University of California, Berkeley*
DANIEL TEICHROEW, *Stanford University*
RALPH I. THAYER, *Washington State University*
HAROLD A. THOMAS, JR., *Harvard University*
DONOVAN J. THOMPSON, *University of Pittsburgh*
WARREN S. TORGERSON, *Massachusetts Institute of Technology*
DONALD R, TRUAX, *University of Kansas*
MELVILLE J. ULMER, *American University*
J. R. VATNSADL, *Washington State University*
JOHN VINER, *Princeton University*
JOSEPH WAKSBERG, *Bureau of the Census*
FREDERICK V. WAUGH, *Bureau of Agricultural Economics*
LIONEL WEISS, *Cornell University*
VINCENT I. WEST, *University of Illinois*
JOHN S. WHITE, *Minneapolis-Honeywell Regulator Company*
D. RANSOM WHITNEY, *Ohio State University*
M. B. WILK, *Bell Telephone Laboratories*
H. WOLD, *University of Uppsala, Sweden*
MAX WOODBURY, *University of Pennsylvania*
ELMER J. WORKING, *University of Illinois*
CHARLES WRIGLEY, *Michigan State University*
N. DONALD YLVISAKER, *Stanford University*
S. S. ZARKOVIC, *United Nations*
MARVIN ZELAN, *National Bureau of Standards*
ARNOLD ZELLNER, *Yale University*